

Water quality of Priority-I Polluted river stretch-2019

Gangua nallah along Bhubaneswar city

Name of Monitoring location	Month	pH	DO (mg/l)	BOD (mg/l)	TC (MPN/ 100 ml)	Overall water quality status during 2019
Gangua Near Rajdhani Engineering College	Jan	7.4	2.1	18.1	160000	Not conforming to Class-C and Class-B
	Feb	7.1	1.3	20.1	160000	-do-
	Mar	7.3	3.7	7.3	160000	-do-
	Apr	7.2	1.7	14.7	160000	-do-
	May	6.5	0.9	20.6	160000	-do-
	June	7.1	1	10.2	160000	-do-
	July	6.7	2.1	4.6	160000	-do-
	Aug	7.5	5.5	0.7	160000	-do-
	Sep	6.9	2	3.1	160000	-do-
	Oct	7.2	3.6	3.4	35000	-do-
	Nov	6.5	1.8	6.1	24000	-do-
	Dec	6.6	1.1	6.9	160000	-do-
Gangua near Palasuni	Jan	7.1	1.5	22.1	160000	Not conforming to Class-C and Class-B
	Feb	7.1	2.3	22.1	160000	-do-
	Mar	7.2	1	12.1	160000	-do-
	Apr	7.2	1.7	21.3	160000	-do-
	May	6.7	4.2	25.5	160000	-do-
	June	7	1	8.7	160000	-do-
	July	6.7	1.2	3.9	160000	-do-
	Aug	7.8	4.6	1.2	160000	-do-
	Sep	6.9	2	3.9	160000	-do-
	Oct	7.0	3.3	3.9	24000	-do-
	Nov	6.6	1.9	3.4	160000	-do-
	Dec	6.6	1.8	12.1	160000	-do-
Gangua near Samantarapur	Jan	7	0.9	39.2	160000	Not conforming to Class-C and Class-B
	Feb	7.1	0.7	25.5	160000	-do-
	Mar	7.2	0.7	14.6	160000	-do-
	Apr	7.6	1.5	17.8	160000	-do-
	May	7.1	2.8	26.5	160000	-do-
	June	7.1	0.9	18.4	160000	-do-
	July	6.8	1.6	5.4	160000	-do-
	Aug	8	4.3	1.7	160000	-do-
	Sep	7	1.6	5.4	160000	-do-
	Oct	7.1	3.6	3.7	160000	-do-
	Nov	6.5	1.5	3.3	160000	-do-
	Dec	6.7	0.6	14.4	160000	-do-

Name of Monitoring location	Month	pH	DO (mg/l)	BOD (mg/l)	TC (MPN/ 100 ml)	Overall water quality status during 2019
Gangua near Vadimula	Jan	7.2	2	7.2	160000	Not conforming to Class-C and Class-B
	Feb	7.4	3.3	5.1	16000	-do-
	Mar	7.2	0.9	12.6	160000	-do-
	Apr	7.1	2.2	5.6	160000	-do-
	May	7.1	3.9	6.8	160000	-do-
	June	6.9	5.6	4.9	92000	-do-
	July	6.8	4.2	2.6	160000	-do-
	Aug	Not collected				
	Sep	7	5	2	54000	-do-
	Oct	7.2	5.2	2.8	160000	-do-
	Nov	6.7	5.5	3.2	160000	-do-
	Dec	6.9	2.6	6.1	54000	-do-

Tolerance limits for Class B and Class C Inland Surface Water Bodies

(Designated Best Use Classification by CPCB)

	pH	DO, mg/l	BOD, mg/l	TC, MPN/ 100 ml
Class 'B' (Out door bathing)	6.5-8.5	5.0 or more	3.0 or less	500 or less
Class 'C' (Drinking water source with conventional treatment and after disinfection)	6.5-8.5	4.0 or more	3.0 or less	5000 or less

Note : DO: Dissolved Oxygen available for degradation of organic matter

B.O.D.: Biochemical Oxygen Demand indicates the presence of biodegradable Organic matter

TC: Total Coliform Bacteria